

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1-10. (Canceled)

11. (Previously Presented) A radio transmission apparatus comprising:

an interleaver that performs interleaving of input data including a plurality of bits;  
a rate matcher that comprises a repeater and a puncturer, wherein said rate matcher alternatively selects between (i) employing said repeater to repeat a part of said bits interleaved by said interleaver and (ii) employing said puncturer to puncture a part of the bits interleaved by said interleaver.

12. (Previously Presented) The radio transmission apparatus according to claim 11, further comprising a coder that performs error correction coding of said input data to provide error correction coded data, wherein, after said error correction coding by said coder, said interleaver performs the interleaving of the error correction coded data.

13. (Previously Presented) The radio transmission apparatus according to claim 11, wherein said repeat and said puncture of the part of the bits are performed at regular intervals.

14-18. (Canceled).

19. (Previously Presented) A radio transmission method comprising:

- (a) performing interleaving of input data including a plurality of bits;
- (b) employing a rate matcher that comprises a repeater and a puncturer to alternatively select between (i) using said repeater to repeat a part of bits interleaved in step (a) and (ii) using said puncturer to puncture a part of the bits interleaved in step (a); and
- (c) transmitting data including bits provided by said rate matcher in step (b).

20. (Previously Presented) A radio reception method comprising:

- (a) receiving data including a plurality of bits transmitted by the radio transmission method of claim 19;
- (b) employing a second rate matcher that comprises a second repeater and a second puncturer to alternatively select between

(i) using said second repeater to repeat bits punctured by said puncturer employed in said radio transmission method and (ii) using said second puncturer to puncture bits repeated by said repeater employed in said radio transmission method; and

(c) performing deinterleaving of data including bits provided by said second rate matcher in step (b), in accordance with the interleaving performed in said radio transmission apparatus.

21. (Previously Presented) The radio transmission apparatus according to claim 11, wherein said rate matcher performs adjustment of a length of data interleaved by said interleaver.

22. (Previously Presented) The radio transmission apparatus according to claim 11, further comprising a transmitter that transmits data including bits provided by said rate matcher.

23. (Previously Presented) A radio transmission apparatus comprising:

an interleaver that performs interleaving of input data including a plurality of bits;

a rate matcher that repeats a part of bits interleaved by said interleaver.

24. (Previously Presented) The radio transmission apparatus according to claim 23, further comprising a coder that performs error correction coding of said input data to provide error correction coded data, wherein, after said error correction coding by said coder, said interleaver performs said interleaving of the error correction coded data.

25. (Previously Presented) The radio transmission apparatus according to claim 23, wherein said rate matcher repeats said part of bits at regular intervals.

26-30. (Cancelled).

31. (Previously Presented) A radio transmission method comprising:

- (a) performing interleaving of input data including a plurality of bits;
- (b) employing a rate matcher that repeats a part of bits interleaved in step (a); and
- (c) transmitting data including bits provided by said rate matcher in step (b).

32. (Previously Presented) A radio reception method comprising:

(a) receiving data including a plurality of bits transmitted by the radio transmission method of claim 31;

(b) employing a second rate matcher that punctures bits repeated by said rate matcher employed in said radio transmission method; and

(c) performing deinterleaving of data including bits provided by said second rate matcher in step (b), in accordance with the interleaving performed in said radio transmission apparatus.

33. (Previously Presented) The radio transmission apparatus according to claim 23, wherein said rate matcher performs adjustment of a length of data interleaved by said interleaver.

34. (Previously Presented) A radio transmission apparatus according to claim 23, further comprising a transmitter that transmits data including bits provided by said rate matcher.

35. (New) A radio reception apparatus comprising:  
a receiver that receives data including a plurality of bits transmitted from the radio transmission apparatus of claim 22;  
a second rate matcher that comprises a second repeater and a second puncturer, wherein said second rate matcher alternatively selects between (i) employing said second repeater to increase

bits punctured by said puncturer of said radio transmission apparatus and (ii) employing said second puncturer to puncture bits repeated by said repeater of said radio transmission apparatus; and

a deinterleaver that performs deinterleaving of data including bits provided by said rate matcher of said radio reception apparatus, in accordance with the interleaving performed in said radio transmission apparatus.

36. (New) A communication terminal apparatus comprising the radio transmission apparatus of claim 22.

37. (New) A communication terminal apparatus comprising the radio reception apparatus of claim 35.

38. (New) A base station apparatus comprising the radio transmission apparatus of claim 22.

39. (New) A base station apparatus comprising the radio reception apparatus of claim 35.

40. (New) A radio reception apparatus comprising:

a receiver that receives data including a plurality of bits transmitted from the radio transmission apparatus of claim 34;

a second rate matcher that puncture bits repeated by said repeater of said radio transmission apparatus; and

a deinterleaver that performs deinterleaving of data including bits provided by said second rate matcher, in accordance with the interleaving performed in said radio transmission apparatus.

41. (New) A communication terminal apparatus comprising the radio transmission apparatus of claim 34.

42. (New) A communication terminal apparatus comprising the radio reception apparatus of claim 40.

43. (New) A base station apparatus comprising the radio transmission apparatus of claim 34.

44. (New) A base station apparatus comprising the radio reception apparatus of claim 40.